

14. The display system of claim **10**, wherein the application processor is configured to execute the computer readable instructions such that the application processor is further configured to

identify valid pixel data corresponding to a portion of the valid display region to be updated; and
output the identified valid pixel data and location information of the portion of the valid display region to the display driver circuit.

15. The display system of claim **10**, wherein the valid display region has a non-rectangular shape including one of a round shape, an oval shape, an N-polygonal shape, and a curved shape, wherein N denotes an integer which is greater than or equal to 3.

16. A display system comprising:

a display panel having a display region configured to display at least one image, the display region having a non-rectangular shape; and

a display driver integrated circuit configured to drive the display panel based on valid pixel data corresponding to only a portion of a rectangular-shaped image, the portion of the rectangular-shaped image having the same non-rectangular shape as the display region.

17. The display system of claim **16**, wherein the display driver integrated circuit is further configured to

output screen information indicative of the non-rectangular shape of the display region; and
receive the valid pixel data in response to the screen information.

18. The display system of claim **17**, further comprising: a memory storing computer readable instructions; and processing circuitry configured to execute the computer readable instructions such that the processing circuitry is configured to

generate the valid pixel data based on the screen information; and

output the valid pixel data to the display driver integrated circuit.

19. The display system of claim **17**, wherein the screen information identifies a portion of the display panel as the display region.

20. The display system of claim **16**, wherein the display driver integrated circuit is further configured to

receive the valid pixel data;

generate valid image data by rearranging the valid pixel data; and

output the valid image data to drive the display panel.

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